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Patent Abstracts of Japan

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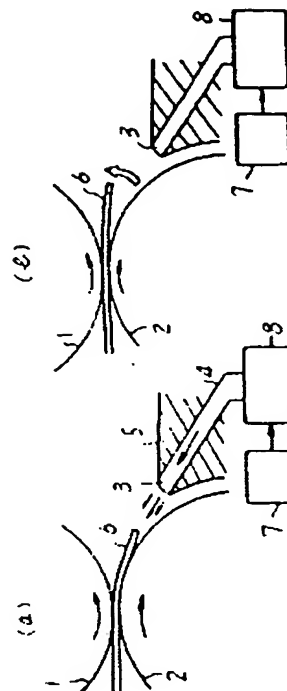
APPLICATION DATE : 25-08-89
APPLICATION NUMBER : 01217465

APPLICANT : HITACHI LTD;

INVENTOR : MITSUYA TERUAKI;

INT.CL. : G03G 15/20 B65H 29/54 G03G 15/14

TITLE : PAPER PEELING DEVICE FOR
ELECTROPHOTOGRAPHIC DEVICE



ABSTRACT : PURPOSE: To obtain the paper peeling device for the electro-photographic device which prevents a paper-sticking-phenomenon and which peels a paper always satisfactorily by providing an air flow pressure adjusting device which adjusts an air flow pressure so as to correspond with a paper thickness and peels a paper.

CONSTITUTION: The paper peeling device is provided with the air flow pressure adjusting device 8 which adjusts an air flow pressure after the signal of a paper thickness setting device 7 is inputted. When the paper 6 is thin one having a paper ream weight less than 135 kg, it sticks to a hot roll 2 because of the viscosity of melted toner, therefore an air flow, which has a pressure set by the adjusting device 8 in advance, is blown from a nozzle 3 against a part where the paper 6 sticks to the roll 2. Therefore, the paper 6 does not have the sticking-phenomenon. When the paper 6 is thick one having a paper ream weight equal to or more than 135kg, the restoring force of the paper 6 caused by its stiffness is increased with the slope of the surface of the rotating roll 2, therefore the adjusting device 8 is not operated. When the paper thickness is between those, an optimum air pressure which corresponds to the thickness is selected based on the command of the setting device 7, and an air flow is blown.

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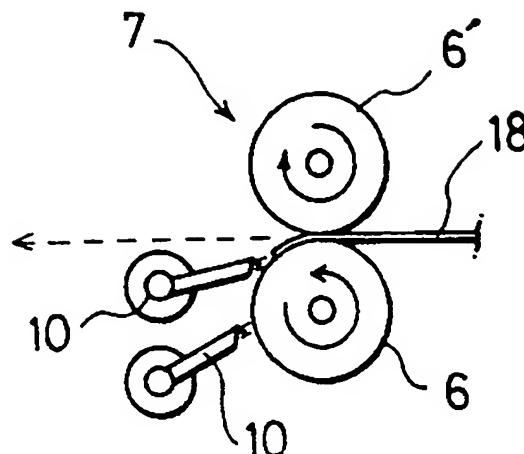
: 59183899

APPLICANT : FUJI XEROX CO LTD;

INVENTOR : FUJITSUKA KAORU;

INT.CL. : G03G 15/20

TITLE : PAPER PEELING DEVICE OF FUSER
ROLL



ABSTRACT : PURPOSE: To peel off fixing paper surely from a fuser roll by blowing air from plural air buffer manifolds arranged on proper positions of the outside periphery of a soft fuser roll on the paper advancing direction side with a proper interval at respectively shifted timings.

CONSTITUTION: An unfixed toner image is transferred to paper 18 by a transfer part, the paper 18 is carried and passed through a contact part between the fuser roll 6 and a pressure roll 6' in a fixing device 7 to fix the image, and then air is blown out from the initial air buffer manifold out of plural manifolds 10~ to the paper 18 to be adhered and wound around the surface of the fuser roll 6. If the paper 18 is not peeled off from the surface of the roll 6, air is blown out again from the succeeding manifold 10 to blow air to the paper 18 with plural times. Consequently, troubles such as the winding of the paper 18 around the roll 6 and the delay of operation due to the removing work of the paper 18 are removed.

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